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TITLE: POLYURETHANE RUBBER COMPOSITION

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INVENTOR-INFORMATION:

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ABSTRACT:

PURPOSE: To obtain the titled composition having improved adhesivity to metals and useful as adhesive and coating material, by carrying out the graft- polymerization of a specific methacrylate containing phosphoric acid group to a thermoplastic polyester urethane rubber in the presence of a polymerization initiator.

CONSTITUTION: The objective composition can be produced by the graft- polymerization of (A) a methacrylate of formula (R is H, CH₃), or CH₂Cl) (e.g. acid phosphoxyethyl methacrylate) to (B) a thermoplastic polyester urethane rubber usually dissolved in an organic solvent, in the presence of (C) a polymerization initiator (e.g. benzoyl peroxide). The amounts of the components A and C are preferably 10-40pts.(wt.) and 0.3-1pt. per 100pts. of the compound B. The grafting reaction is carried out generally at 60-100°C under refluxing preferably for 2-4hr.

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